

ABSTRACT OF THE DISCLOSURE

The invention provides methods for using single-cell non-orthogonal cluster screens to satisfy the moiré-free conditions for four-color halftoning. The selection of these single-cell halftone screens is determined by identifying combinations of four of the halftone cells which satisfy moiré-free conditions provided in the respective frequency equations. Constraints may be applied and the combinations not meeting such constraints can be removed.

0906556.071301